

ANNEX 3: PROJECT DESCRIPTION

| Project name | Brief Description | Objective | Estimated Cost (USD Mn) |
|---|---|--|-------------------------|
| Approx. 80km 220kV Kwale - Shimoni (Kibuyuni) and intertie to existing 132kV system | 220 kV Kwale -Shimoni (Kibuyuni) double circuit line from off 220kV Dongo Kundu Mariakani via a LILO at Bang' a including establishment of new 220kV switching station at Bang'a, new 220/132/33kV at Shimoni (Kibuyuni) 132kV intertie to existing 132kV system in the area. | Extend 220kV network to Kibuyuni for increased adequacy of supply required for projected ship recycling and new port at Shimoni, including reinforcing 132kV in South Coast networks | 84.9 |
| Approx. 7km 132 kV Kipevu-Mbaraki | 132 kV Kipevu – Mbaraki double circuit line including establishment of new 132/33kV substation station at Mbaraki and 132kV bay extension at Kipevu. Due to space constraint, the underground cable and GIS system may be considered. | Extend high voltage network to Mbaraki for increased adequacy, improved security of supply by reinforcing the medium voltage network | 14.4 |
| Approx. 145 km 220 kV Kiambere-Maua-Isiolo | 220 kV Kiambere-Maua-Isiolo double circuit line including establishment of new 220/132/33 substation at Maua, 220kV bay extensions at Isiolo and Kiambere substations | Provide alternative supply/evacuation path for Isiolo and hydro, wind and solar resources | 120 |
| Approx. 34km 132kV Meru-Maua | 132 kV Meru – Maua double circuit line including establishment of new 132/33kV substation at Maua and 132kV bay extension at Meru. | Extend 132kV network to Maua for increased supply adequacy and reinforcing medium voltage networks | 26.63 |
| TOTAL | | | 245.93 |

**These are estimated EPC and RAP cost prepared for KETRACO Transmission Master Plan and may not be reflective of the prevailing market rates. The consultant is expected to undertake independent feasibility to determine project cost(s).*

The map of Kenya showing the geographical location of the projects above is given in the next section.

PROJECT LOCATION MAP

